

## APPENDIX B

### Oklahoma Corporation Commission Underground Injection Control Class II Wells Year-end Narrative Work-plan 2008

#### Activity

UIC inspections were up at 10,267 exceeding our goal of 10,000. Total MIT's performed and witnessed numbered 2,743 exceeding our goal of 2,300.

The UIC Department applications were up at 811 for 2008, 291 disposals 432 injectors, 51 commercial disposals. Approved orders were 215 disposal wells, 254 injectors and 37 commercial wells. Total order dismissals numbered 76.

Activity	Goals	Accomplishment
Inspections (On-site)	10,000	10,267
MITs (total)	2,300	2,743
MITs (Witnessed)	2,300	2,743
Permits (Total Issued)	NA	520
Technical Reviews	NA	811
Operatorship Transfers	NA	694
Technical conferences	NA	517

#### GIS

UIC is currently downloading the 2008 NAIP (National Agricultural Imaging Program) aerial photos. These are much higher resolution than previous Oklahoma photos and will be very useful to both office and field staff.

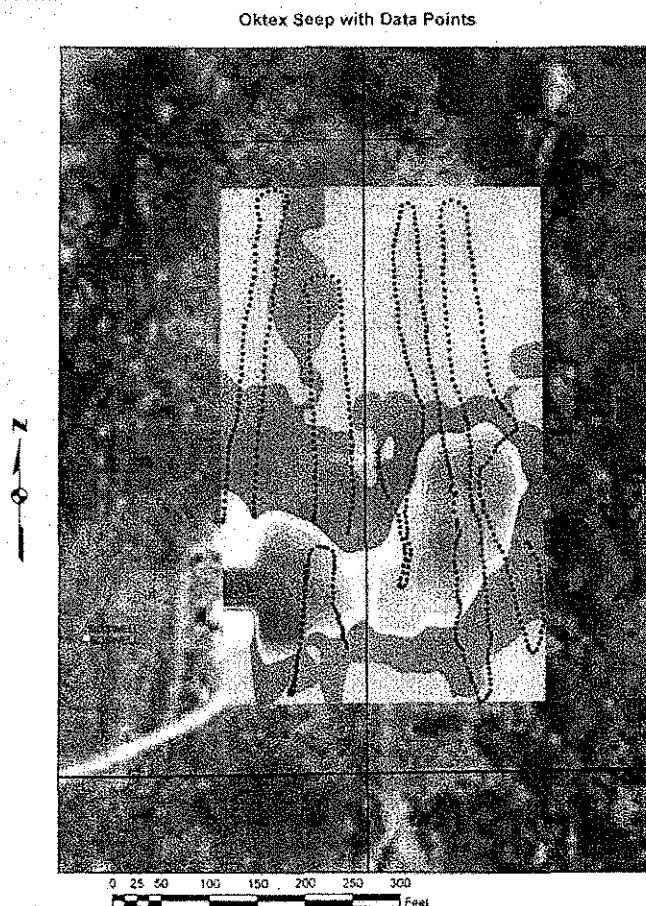
Additionally, with the help of brownfields the OCC is purchasing a two terabyte server dedicated to GIS data. This will allow installation of all high resolution 2008 and archival aerial photos.

## Training

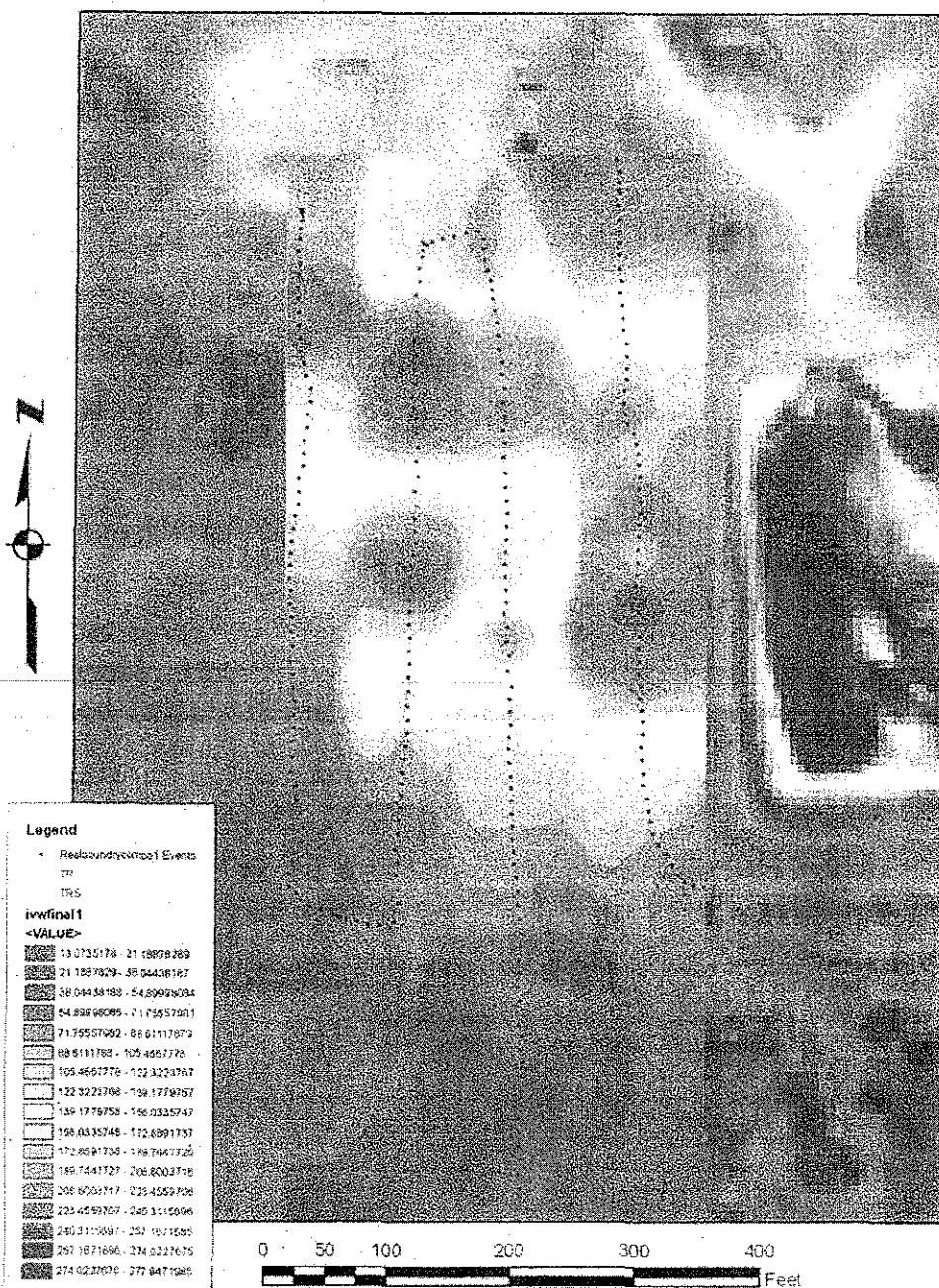
UIC held training classes for the EM-31 (purchased with an EPA/UIC grant) and EM-38 electromagnetic survey tools. These tools are helpful in locating sources of oil field brine. The class was attended by employees of UIC, PA, EPA and Brown fields.

## EM Surveys

Thanks to grants supplied by the EPA for the EM31, data recorder, and spatial analyst, the amount of time it takes to survey a site has been reduced considerably. A Survey that before would have taken five man-days to flag, survey, and map, now can be done in one-man day. These surveys are helping to determine sources of pollution and whether the pollution is caused by UIC activity. Two examples of recently completed surveys have been included.



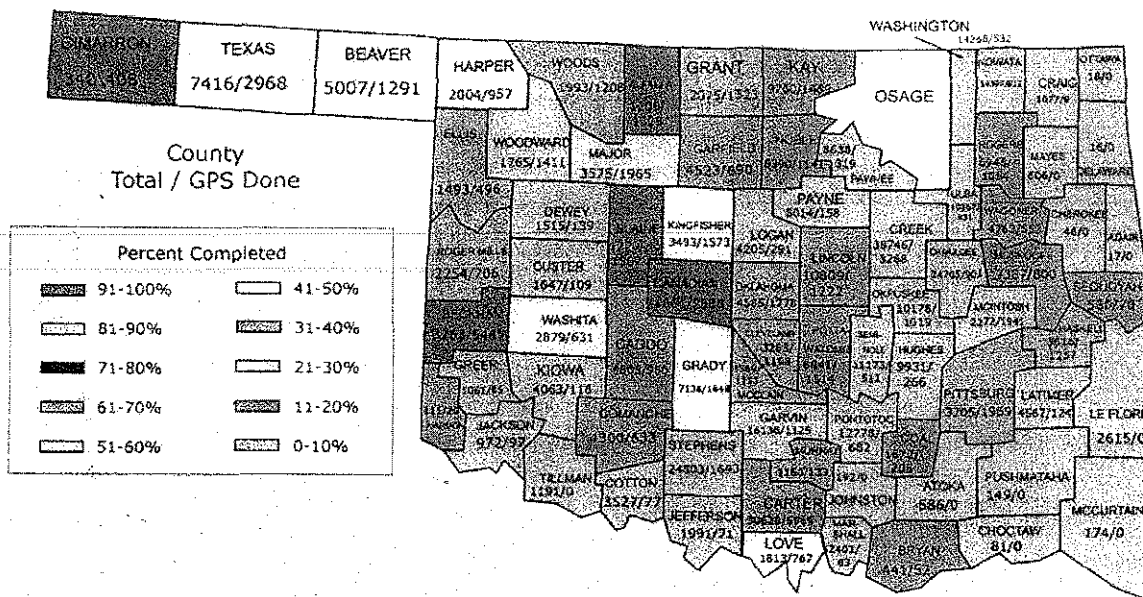
# MesaPit



## GPS Project

Field Operations has committed to a long-term goal of obtaining a GPS position on all wells in Oklahoma within five years. s. They have completed the second year of this project and have GPS positions on over 73,000 Wells. The data is collected using WGS 84. Quality control for integrating this into our database has yet to be determined.

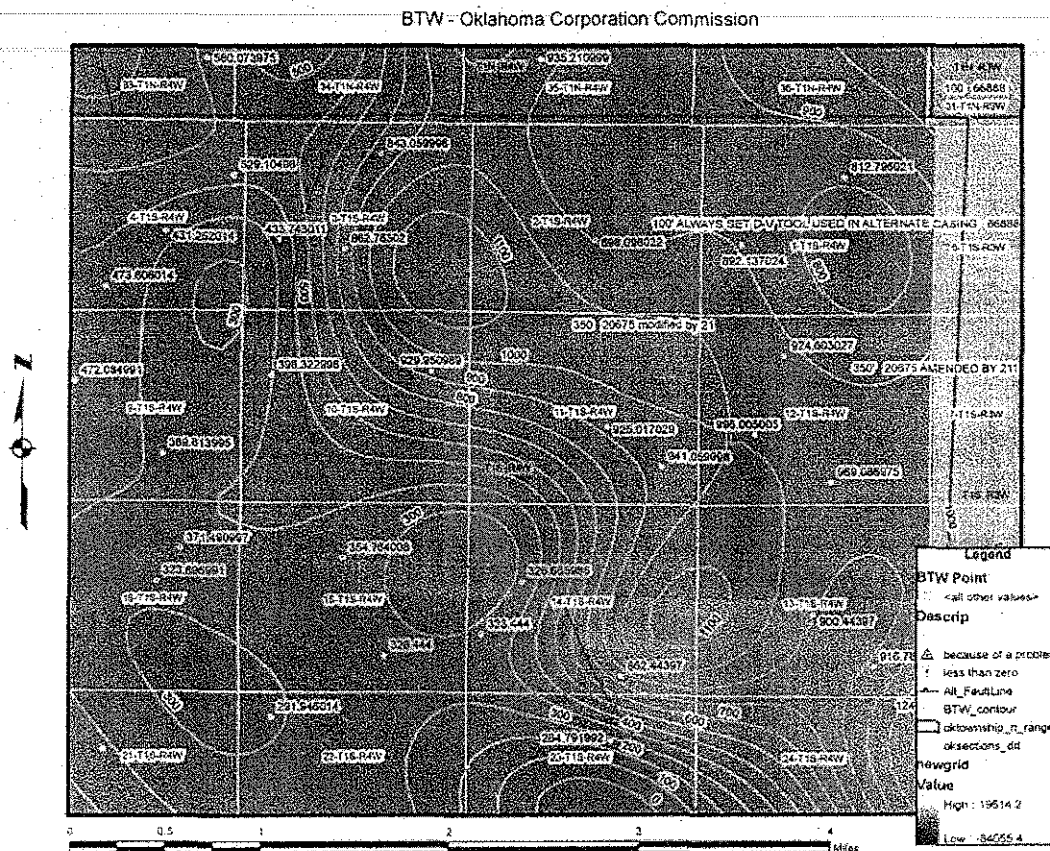
This project has been made possible thanks to an EPA grant providing Laptops for OCC Field Inspectors.



## Base of treatable water project

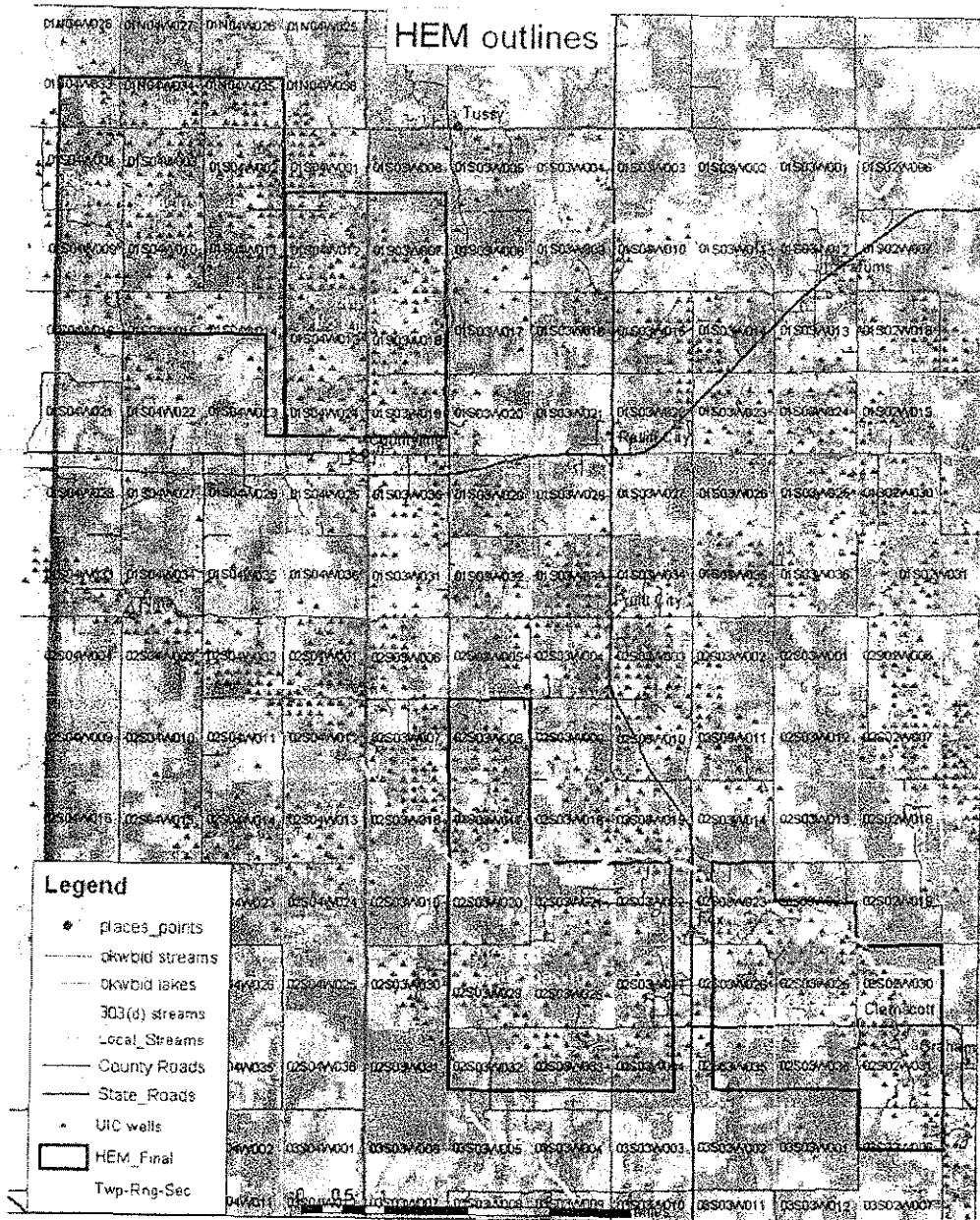
UIC has given GIS support to the Technical Department of the Oil and Gas Division in creating a conversion of the Base of Treatable Water map to a digital format for use with GIS software. This map shows depth to treatable

water in both poly line contour and DEM. It also shows Field Rule areas with the order numbers and special requirements. This will be a great help to office and field staff in determining depth to treatable water and surface casing requirements. With the DEM the field inspector need only use the ID tool to click on a lat long position to give him a consistent and repeatable depth to treatable water.



## Helicopter EM survey

UIC special project funding in conjunction with part of a 303d grant, was used to fund the data acquisition and USGS interpretation. OCC is waiting for cross sections to be completed to ground truth survey areas in Stephens and Carter Counties. This data will be used to delineate areas for detailed investigation for possible contamination.



## **Risk-Based Data Management System (RBDMS)**

Implementation of RBDMS is a joint project of the Oklahoma Corporation Commission and the Ground Water Protection Council

RBDMS is a fully relational, normalized PC- and client/server-based information management system that can be used to track comprehensive data on wells and well activities. The RBDMS program also includes many other automated functions, utilities, and standard reports.

The Risk-Based Data Management System (RBDMS) was developed by the Underground Injection Practices Research Foundation (GWPRF) through a grant from the United States Department of Energy (DOE).

Oklahoma Corporation Commission UIC staff will use RBDMS for effectively maintaining and tracking information on Class II injection and disposal wells associated with production operations.